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EXHIBITS 'A" AND "B" - 4 PAGES/
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Roving for long fiber Polypropylene

RO99 P319 is an E-glass direct roving, specially designed for use in long fiber pellets thermoplastics process (LFT & direct LFT).

RO99 P319 allows a very good impregnation at high throughput and generates low fuzz build-up during processing. It is treated with silane based coupling, specially designed to provide excellent mechanical performance with polypropylene resin svstems.

Identification

Example: RO99 2400 P319

: SG Vetrotex code for direct rovings RO99 : nominal linear weight of roving (tex) : SG Vetrotex code for sizing system P319

Technical characteristics (nominal values)

Filament dlameter	Loss on ignition (%)	Moisture (%)
(hw)	ISO 1887	ISO 3344
17	0.60	≤ 0.10
17	0.60	≤ 0,10 ·
	diameter (µm)	diameter (%) (μm) ISO 1887

Refer to the Standard Product Specification for more precise information on the characteristics of the product.

Products available (standard ref.)

Cheeses for internal unwinding.

Γ	Characteristics of complete cheeses					
	internal diameter	External diameter	Height	Approx. nominal		
L	(mm)	(mm)	(mm)	weight (kg)		
l	165	310	280	20,5		

Reinforcements Europe

RO99 P319

Technical data sheet

Properties

- excellent processing characteristics
 - outstanding Impregnation in PP
 - no fuzz
 - no static electricity
- high level of mechanical properties with polypropylene resin systems



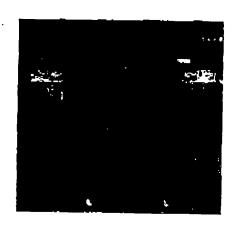


EXHIBIT "A"



Packaging (standard ref.)

- Individual packaging: each cheese is packaged in a wrapped film which should be retained in place during unwinding.
- Bulk packaging : cheeses are palletised and enclosed with a cardboard cover and a stretched film.

Cheeses	Layers	Cheeses	Pallet dimensions	Approximate net
per pallet	per pallet	per layer	LxWxH (cm)	weight (kg)
44	4	. 11	120 x 100 x 120	900

Shipment (standard ref.)

Weights given hereafter are approximate values

Road tra	nsport	Sea transport	
Standard trail	er 13,40 m	20' contr	ainer
Number of pallets	Net weight (t) (maximum)	Number of pallets (maximum)	Net weight (t)
24	22	20-	16

^{*} On two levels : 1 level of pallets with 4 layers and 1 level of pallets with 3 layers.

Storage

RO99 roving must be stored in its original packaging away from humidity and at a moderate temperature. The best conditions are at a temperature between 15 and 35°C and at a 35 to 65% relative humidity level.

If the product is stored at low temperature (below 15°C), it is advisable to condition it in the workshop for at least 24 hours before use, to prevent condensation. The stretched film must be removed just before use.

Static stacking of the pallets is possible up to two high (1/1).

Vetrolex Distribution Merce Cerralum Matind Services Nr. 34.5 £-25000 Alcab de Herierya (Matin) Spain 76: ~34.91 885 57.95 Fay: 43.491 885 58.15 Wetreson Reletiorgeneumts Behemin, sur.o. Statechia 105 C2-57021 Litempia Totack Republic Tel: ~400 486 661 111 Pay: ~400 486 661 112 Verigen sti Va Gotto 3 1-20040 Cembiago (M) Rey Tei : v39 (2 109 481 Fax =36 02 553 481 92 MM Wetreton (URL) Ltd Uril 2, Therms Park, Linder Wey Wallingford Chan — CX10 6TA Great British Tal: 44 1 491 855 336 Fan: 44 1 491 822 712

30 Vetrotas Reinforcement Gool M Raignarata 100 D-52 (34 Netropywrath) Germany 19: 49 2407 6574-0 Fax: 40 2407 6574-20 or 9574-53 80 Vetrotan Svenska Ali Natojastry 5 3-45 07 Kungstasta ud. 40 (0) 300 727 50 - 4ps. 45 (0) 500 716 ES

Saint-Gobain Velrolex reserves the right to change the information given herein without prior notice.

For further information our web site: www.vetrotexettrope.com

(05/2002)

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CUSTOMER ACCEPTANCE STANDARDS

V" ERF 49
Date 02-01-10
Supersedes 97-09-20
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R435X6 TYPE 30 & DIRECT ROVING-FOR LONG FIBERS REINFORCEMENT OF THERMOPLASTICS

1 PRODUCT DESCRIPTION

R43SX6 Type 30 is a single strand direct roving. The 17 µm filaments have a silane based size (R43S) designed to give good combatibility with numerous thermoplastics (PA, PP, PC, PPS...) and well strength retention, it has particularly good compatibility with PA (nylon).

This product is made using Advanter® glass libre. Advantex combines the excellent mechanical and electrical properties of traditional E glasses with the acid combining resistance of E-CR glass. Advantex satisfies the description of both E and E-CR glass according to ISO 2078. Advantex qualifies as an E-CR glass as per OIN 1259 and ASTM 0578.

R43S roving is manufactured in combinity with the following standards: ISO 2797. NF B38151 and DIN 61855

2 APPLICATION

R43S Type 30 is designed for long fibre thermoplastics reinforcement. The size is designed to provide adequate impregnation with maximum process speed.

3. AVAILABLE PRODUCTS

identification nymber	Aug. diameter (µm)	Bare glass incar density (lex)	Available package	Approxim, bkg weight (kg)
R435X6	17	2400	¢	23
M-38X6	17	2400	V	32

4 PACKAGING IDENTIFICATION AND PALLETIZATION

For packaging, identification and patletization see packaging standard EPS 34 & EPS 76

Package C for order quantities of more than one patiet shipment shall be composed of min 60% (by weight) of packages weighing 21 to 28 kg (C-F) and max 40% (by weight) of packages weighing 4.5 to 20.9 kg (C-P)

Package V , ballets of "V" packages can contain a maximum of 4 hobbins of 4.5 to 32 kg on the top layer

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EXHIBIT "B"

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5. SIGNIFICANT PROPERTIES AND TEST METHODS

Property	Product	Specification			Test method
	(tex)	Min	Nominal	Maly	1 (1)
Limear density (tex) (glass + size)	2400	2210	2410	2610	TM-RO-01-PP
Moisture • % loss on drying • Forte index (2)	AF All	-	-	9 15 180	TM-RO-01-PP
Solids (3) (% loss on ignition after drying)	2400	053	0 70	D 87	TM-RQ-01-PP

(1) Available upon request.

(2) Only valid for C balls checked on L'Ardoise FORTE machine.

(3) For solids on direct rowings, the sample must be taken after having discarded 1000 g from the outside and/or the moide of the package.

5. VISUAL REQUIREMENTS

The Type 30 ball shall be firmly and evenly wound with a uniform lay, equal traverse length. The Type 30 roving ball shall be wound with even tension and exhibit no category.

The flanges of the package may present a yellowish aspect which is inherent in the product and is not a cause for reject.

A package that has (inside the build or on its surface) visible grease, oil, diff or other foreign matter, 3 mm or less diameter, is rejectable if the total number of defects exceeds two (2). A package is also rejectable if it contains one (1) or more of such defects greater than 3 mm in diameter.

Any package build deformity which interferes with the smooth and uniform runoff of the strand is a cause for rejection of the package.

7 STORAGE CONDITIONS

Glass fibre products must remain in packaging material until just prior to its use if its recommended to bring material in the workshop place 24 hours at least prior use. Optimal atmospheric processing conditions are: temperature between 20-22°C and relative humidity between 60-65%.

The peckaging system is designed to allow stacking of two pallets. When stacking two high, care should be taken top tace correctly and smoothly the top pallet. Owens Coming is not responsible for any damage resulting from stacking pallets higher than two high.

Probated and eased by : Quality Support Organisation (QSQ)
Approved by : Customer Support Team